

# Creek OBH 15 Phono Pre-Amplifier

## SPECIFICATION

### MOVING MAGNET

GAIN	37dB
FREQUENCY RESPONSE	20 Hz to 20 kHz +/- 0.25 dB
SIGNAL TO NOISE RATIO	-83 dB
TOTAL HARMONIC DISTORTION	< 0.03%
RIAA DEVIATION	+/- 0.5%
OUTPUT	250 mV
OUTPUT IMPEDANCE	< 100
INPUT SENSITIVITY/IMPEDANCE	3.5 mV / 47 k 220 pF
OVERLOAD MARGIN	22 dB
MATES WELL WITH MM CARTRIDGES	2.5 mV - 5 mV output

### MOVING COIL

GAIN	56 dB
FREQUENCY RESPONSE	20 Hz to 20 kHz +/- 0.25 dB
SIGNAL TO NOISE RATIO	- 75 dB
TOTAL HARMONIC DISTORTION	< 0.05%
RIAA DEVIATION	+/- 0.5%
OUTPUT	250 mV
OUTPUT IMPEDANCE	< 100
INPUT SENSITIVITY/IMPEDANCE	0.5 mV / 1000 3300 pF
OVERLOAD MARGIN	20 dB
MATES WELL WITH MC CARTRIDGES	0.5 mV - 1 mV output
DIMENSIONS	150 x 100 x 66 mm
POWER SUPPLY VOLTAGE	24V DC 30 mA

## WARRANTY

If within two years of the purchase date your OBH product proves to be defective for any reason other than accident, misuse, neglect, unauthorised modification or fair wear and tear, Creek Audio Ltd will, at its discretion, replace the faulty parts without charge for labour or return carriage within the U.K. This warranty is valid only within the U.K. and given in addition to statutory rights. Service enquiries outside the U.K. should be addressed first to the supplying dealer and or Creek distributor/importer. Warranties granted in these countries are entirely at the discretion of the distributor.

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## Operating Instructions

Thank you for purchasing the OBH 15 phono pre-amplifier. You are now in possession of a state-of-the-art product. The functions and operation of the OBH 15 are extremely simple. The following notes are provided to explain all aspects of its design and use.

The function of the OBH 15 is to boost the level and correct the frequency response of a low level signal coming from a phono pick-up on a conventional turntable.

The signal required by most modern amplifiers is described as being 'LINE' level, which is, in technical terms, between 200 and 500 milli Volts with a flat frequency response.

Unless your amplifier has a specific 'Phono' or Disc input, the level will be too low and the frequency response will be wrong. The OBH 15 is designed to boost the signal and introduce an R.I.A.A. frequency response characteristic.



## INPUT AND OUTPUT CONNECTION

The output from the turntable is normally terminated on two 'Phono' plugs or RCA jacks. The level is dependent on the type of cartridge used, and in the case of moving magnet will normally be around 2 - 5 milli Volts and for moving coil - 200 - 500 micro Volts.

Most MM or high output MC cartridges will be properly matched by using the OBH 15. By plugging the signal leads from your turntable into the OBH 15 input, the signal will be boosted to 'LINE' level at its output. To prevent hum pick-up, it may be necessary to join the turntable's earth lead to the OBH 15 ground terminal.

The output from the OBH 15 can be connected to most integrated amplifier's and pre-amplifier's line inputs via a regular Phono to Phono (RCA to RCA) stereo interconnect lead.

The output impedance of the OBH 15 is <math><100\ \Omega</math>, therefore it can be used to drive long interconnects without loss, provided they are high capacitance types.

## POWER SUPPLY REQUIREMENTS

In common with all electrical appliances, the OBH 15 requires a power supply.

The requirement for the OBH 15 is for 24 Volts DC at 30 milli-Amps current, minimum. A custom Creek power supply (Creek-Uni) has been provided and this must be connected via the DC inlet on the rear panel of the OBH 15.

The power supply which has been provided is a switchable supply with a universal input range of 100 – 240 Volts. The Creek-Uni power supply is supplied with a pack of universal plug fittings to adapt for Europe, U.K. and the Far-east, USA and Australia. Choose the correct fitting for your country of use and simply snap in place.

The on/off switch is located on the rear panel. As the OBH 15 draws very little power it may be left switched on permanently.

## WIRING THE OBH 15



Connect the OBH 15 to the input of your amplifier with a stereo RCA inter-connect cable. If using a Creek integrated amplifier connect to the first input.

The OBH 15 is a switchable phono pre-amplifier, allowing you to change from moving magnet to moving coil from a switch on the rear panel.

The connection for the phono output from the turntable plus ground is clearly marked for MM and MC. Once connected select MM or MC from the switch located on the rear panel.

The power supply is connected to the 2.1mm positive pin power jack and then to the wall socket. The OBH 15 should be placed away from power supply hum fields for the lowest noise operation.

## NOTE

Due to the inherent muting circuitry in the OBH 15, the signal will take a few seconds to be heard after the power is switched on.

It is necessary for the OBH 15 to be 'burned in' for at least 24 hours before its full sound quality potential can be realised.